

## MULTIPLEXING AND DEMULTIPLEXING OPTICAL SIGNALS

### Abstract of the Disclosure

A multiplexer and demultiplexer may be formed so that two input wavelengths from an optically multiplexed signal may be demultiplexed. A demultiplexer may be in the form  
5 of an integrated filter and photodetector. The filter may reflect one wavelength and may pass another wavelength. The reflected wavelength is detected by a first detector and the passed wavelength is detected by a second detector. For example, the second detector may be combined with the  
10 filter by forming the filter directly on the second detector. In one embodiment, the second detector may be L-shaped.